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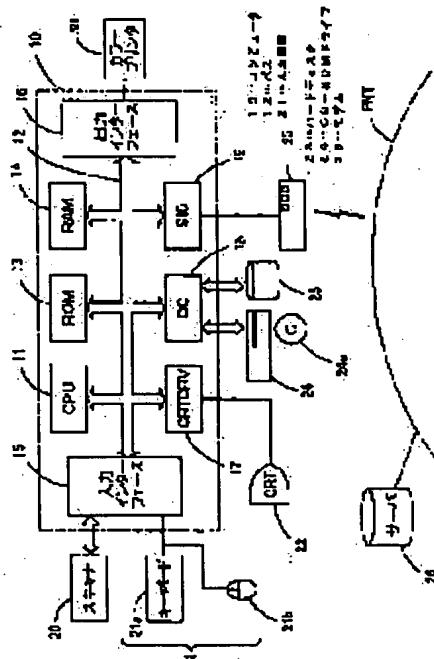
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## (54) MEDIUM WITH GRAY SCALE COLOR-SORTING PROCESS PROGRAM RECORDED, APPARATUS AND METHOD FOR PROCESSING TO SORT GRAY SCALE COLOR

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a medium in which a gray scale color-sorting process program enabling predetermined colors to be sorted to appropriate gray scale colors is recorded, an apparatus and a method for processing to sort gray scale colors.

**SOLUTION:** In sorting (C and M) of a pixel X to gray scale colors (C1, M1, Lc1 and Lm1), a coordinate value in a CMY color space of the pixel X is grasped from a positional relation between areas S1-S4 of rectangles divided from a predetermined plane S including the pixel X and predetermined gray scale color-sorting characteristics DR1-DR4. Sorting to optimum gray scale colors is realized for each pixel by appropriately changing the sorting on the basis of these areas S1-S4 and gray scale color-sorting characteristics DR1-DR4.



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